RECEIVED/600 SEP 1 6 2003

CRF Errors Edited by the STIC Systems Branch

2.

al N	lumber: <u>(</u>	<u>58/887,</u>	505A		CRF Edit Date:	9/15/2003
. F	Realigned 1 ext "wrap]	nucleic acid/ ped" to the r	ENT amino acid nu next line	ERE imbers/text	n cases where th	ie sequence
. (Corrected 1	the SEQ ID	NO. Sequenc	e numbers e	edited were:	
	inserted of NO's edito		nucleic numb	er at the en	d of a nucleic line	. SEQ ID
_ I	Deleted:	invalid be	eginning/end-c	of-file text;	page number	s .
. I	Inserted ma	andatory he	adings/numer	ic identifier	s, specifically:	
_ N	Moved resp	ponses to sar	ne line as head	ding/numer	ic identifier, speci	fically:
. (Other:					
						



1600

RAW SEQUENCE LISTING DATE: 09/15/2003 PATENT APPLICATION: US/08/887,505A TIME: 10:39:53

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09152003\H887505A.raw

SEQUENCE LISTING

```
4 (1) GENERAL INFORMATION:
      6
             (i) APPLICANT: Kilkuskie, Robert E.
      7
                            Frank, Bruce L.
                            Goodchild, John
      8
      9
                            Wolfe, Jia L.
                            Roberts, Peter C.
     10
     11
                            Hamlin, Jr., Henry A.
     12
                            Roberts, Noel A.
                            Walther, Debra M.
     13
            (ii) TITLE OF INVENTION: Oligonucleotides Specific for
     15
     16
                                      Hepatitis C Virus
     18
           (iii) NUMBER OF SEQUENCES: 173
     20
            (iv) CORRESPONDENCE ADDRESS: .
     21
                  (A) ADDRESSEE: Hale and Dorr LLP
                  (B) STREET: 60 State Street
     23
                  (C) CITY: Boston
     24
                  (D) STATE: MA
     25
                  (E) COUNTRY: USA
     26
                  (F) ZIP: 02109
     28
             (V) COMPUTER READABLE FORM:
     29
                  (A) MEDIUM TYPE: Floppy disk
     30
                  (B) COMPUTER: IBM PC compatible
     31
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     32
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     34
            (vi) CURRENT APPLICATION DATA:
C--> 35
                  (A) APPLICATION NUMBER: US/08/887,505A
C--> 36
                  (B) FILING DATE: 02-Jul-1997
     37
                  (C) CLASSIFICATION:
    39
           (vii) PRIOR APPLICATION DATA:
    40
                  (A) APPLICATION NUMBER: US 08/471,968
    41
                  (B) FILING DATE: 06-JUN-1995
    43
          (Viii) ATTORNEY/AGENT INFORMATION:
    44
                  (A) NAME: Kerner, Ann-Louise
                  (B) REGISTRATION NUMBER: 33,523
    45
    46
                  (C) REFERENCE/DOCKET NUMBER: 47508-250HYZ-040CIP
    48
            (ix) TELECOMMUNICATION INFORMATION:
    49
                  (A) TELEPHONE: (617) 526-6000
                  (B) TELEFAX: (617) 526-5000
    50
    54 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
    56
                  (A) LENGTH: 20 base pairs
    57
    58
                  (B) TYPE: nucleic acid
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RAW SEQUENCE LISTING
                                                              DATE: 09/15/2003
                      PATENT APPLICATION: US/08/887,505A
                                                             TIME: 10:39:53
                      Input Set : A:\PTO.AMC.txt
                     Output Set: N:\CRF4\09152003\H887505A.raw
     59
                   (C) STRANDEDNESS: single
     60
                   (D) TOPOLOGY: linear
W--> 62
           (ii) MOLECULE TYPE: DNA
     64
           (iii) HYPOTHETICAL: NO
     66
            (iv) ANTI-SENSE: YES
     68
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     70 GGTGCACGGT CTACGAGACC
                                                                                 20
     72 (2) INFORMATION FOR SEQ ID NO: 2:
     74
             (i) SEQUENCE CHARACTERISTICS:
     75
                  (A) LENGTH: 20 base pairs
     76
                  (B) TYPE: nucleic acid
     77
                  (C) STRANDEDNESS: single
     78
                  (D) TOPOLOGY: linear
W--> 80
            (ii) MOLECULE TYPE: DNA
     82
           (iii) HYPOTHETICAL: NO
     84
            (iv) ANTI-SENSE: YES
     86
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
     88 CATGGTGCAC GGTCTACGAG
                                                                                 20
     90 (2) INFORMATION FOR SEQ ID NO: 3:
     92
             (i) SEQUENCE CHARACTERISTICS:
     93
                  (A) LENGTH: 20 base pairs
     94
                  (B) TYPE: nucleic acid
     95
                  (C) STRANDEDNESS: single
     96
                  (D) TOPOLOGY: linear
W--> 98
            (ii) MOLECULE TYPE: DNA
     100
            (iii) HYPOTHETICAL: NO
             (iv) ANTI-SENSE: YES
     102
     104
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
     106 GCTCATGGTG CACGGTCTAC
                                                                                  20
     109 (2) INFORMATION FOR SEQ ID NO: 4:
     111
             (i) SEQUENCE CHARACTERISTICS:
     112
                   (A) LENGTH: 20 base pairs
     113
                   (B) TYPE: nucleic acid
     114
                   (C) STRANDEDNESS: single
     115
                   (D) TOPOLOGY: linear
W--> 117
             (ii) MOLECULE TYPE: DNA
     119
            (iii) HYPOTHETICAL: NO
     121
             (iv) ANTI-SENSE: YES
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
     125 GTGCTCATGG TGCACGGTCT
                                                                                  20
     127 (2) INFORMATION FOR SEQ ID NO: 5:
     129 .
              (i) SEQUENCE CHARACTERISTICS:
     130
                   (A) LENGTH: 20 base pairs
     131
                   (B) TYPE: nucleic acid
     132
                   (C) STRANDEDNESS: single
     133
                   (D) TOPOLOGY: linear
W--> 134
            (ii) MOLECULE TYPE: DNA
     136
            (iii) HYPOTHETICAL: NO
     138
            (iv) ANTI-SENSE: YES
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DATE: 09/15/2003

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RAW SEQUENCE LISTING
                     PATENT APPLICATION: US/08/887,505A
                                                               TIME: 10:39:53
                     Input Set : A:\PTO.AMC.txt
                     Output Set: N:\CRF4\09152003\H887505A.raw
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
     140
                                                                                   20
     142 CGTGCTCATG GTGCACGGTC
     144 (2) INFORMATION FOR SEQ ID NO: 6:
              (i) SEQUENCE CHARACTERISTICS: .
     146
     147
                   (A) LENGTH: 20 base pairs
                   (B) TYPE: nucleic acid
     148
     149
                   (C) STRANDEDNESS: single
     150
                   (D) TOPOLOGY: linear
W--> 152
             (ii) MOLECULE TYPE: DNA
     154
            (iii) HYPOTHETICAL: NO
     156
             (iv) ANTI-SENSE: YES
     158
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
                                                                                   20
     160 TTCGTGCTCA TGGTGCACGG
     162 (2) INFORMATION FOR SEQ ID NO: 7:
              (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 20 base pairs
     165
     166
                   (B) TYPE: nucleic acid
     167
                   (C) STRANDEDNESS: single
                   (D) TOPOLOGY: linear
     168
W--> 170
             (ii) MOLECULE TYPE: DNA
     172
            (iii) HYPOTHETICAL: NO
     174
             (iv) ANTI-SENSE: YES
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
     176
     178 GGATTCGTGC TCATGGTGCA
                                                                                   20
     180 (2) INFORMATION FOR SEQ ID NO: 8:
              (i) SEQUENCE CHARACTERISTICS:
     182
     183
                   (A) LENGTH: 20 base pairs
     184
                   (B) TYPE: nucleic acid
     185
                   (C) STRANDEDNESS: single
     186
                   (D) TOPOLOGY: linear
W--> 188
             (ii) MOLECULE TYPE: DNA
     190
            (iii) HYPOTHETICAL: NO
     192
             (iv) ANTI-SENSE: YES
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
                                                                                  20
     196 TTAGGATTCG TGCTCATGGT
     198 (2) INFORMATION FOR SEQ ID NO: 9:
              (i) SEQUENCE CHARACTERISTICS:
     200
     201
                   (A) LENGTH: 20 base pairs
     202
                   (B) TYPE: nucleic acid
     203
                   (C) STRANDEDNESS: single
     204
                   (D) TOPOLOGY: linear
W--> 206
             (ii) MOLECULE TYPE: DNA
     208
            (iii) HYPOTHETICAL: NO
     210
             (iv) ANTI-SENSE: YES
     212
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
     214 GGTTTAGGAT TCGTGCTCAT
                                                                                  20
     216 (2) INFORMATION FOR SEQ ID NO: 10:
     218
              (i) SEQUENCE CHARACTERISTICS:
     219
                   (A) LENGTH: 20 base pairs
```

```
DATE: 09/15/2003
                      RAW SEQUENCE LISTING
                      PATENT APPLICATION: US/08/887,505A
                                                                TIME: 10:39:53
                      Input Set : A:\PTO.AMC.txt
                      Output Set: N:\CRF4\09152003\H887505A.raw
     220
                    (B) TYPE: nucleic acid
     221
                    (C) STRANDEDNESS: single
     222
                    (D) TOPOLOGY: linear
W--> 224
           (ii) MOLECULE TYPE: DNA
     226
             (iii) HYPOTHETICAL: NO
     228
             (iv) ANTI-SENSE: YES
     230
              (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
                                                                                    20
     232 TGAGGTTTAG GATTCGTGCT
     234 (2) INFORMATION FOR SEQ ID NO: 11:
               (i) SEQUENCE CHARACTERISTICS:
     237
                    (A) LENGTH: 20 base pairs
     238
                    (B) TYPE: nucleic acid
     239
                    (C) STRANDEDNESS: single
     240
                    (D) TOPOLOGY: linear
W--> 242
             (ii) MOLECULE TYPE: DNA
     244
             (iii) HYPOTHETICAL: NO
     246
              (iv) ANTI-SENSE: YES
              (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
     248
                                                                                    20
     250 CTTTGAGGTT TAGGATTCGT
     252 (2) INFORMATION FOR SEQ ID NO: 12:
               (i) SEQUENCE CHARACTERISTICS:
     255
                    (A) LENGTH: 20 base pairs
     256
                    (B) TYPE: nucleic acid
     257
                    (C) STRANDEDNESS: single
                    (D) TOPOLOGY: linear
     258
W--> 260
             (ii) MOLECULE TYPE: DNA
     262
            (iii) HYPOTHETICAL: NO
             (iv) ANTI-SENSE: YES
     264
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
     266
                                                                                    20
     268 TTCTTTGAGG TTTAGGATTC
     270 (2) INFORMATION FOR SEQ ID NO: 13:
     272
              (i) SEQUENCE CHARACTERISTICS:
     273
                    (A) LENGTH: 20 base pairs
     274
                    (B) TYPE: nucleic acid
     275
                    (C) STRANDEDNESS: single
     276
                    (D) TOPOLOGY: linear
W--> 278
             (ii) MOLECULE TYPE: DNA
     280
            (iii) HYPOTHETICAL: NO
     282
             (iv) ANTI-SENSE: YES
     284
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
                                                                                    20
     286 TACGTTTGGT TTTTCTTTGA
     288 (2) INFORMATION FOR SEQ ID NO: 14:
              (i) SEQUENCE CHARACTERISTICS:
     290
     291
                    (A) LENGTH: 20 base pairs
     292
                    (B) TYPE: nucleic acid
     293
                    (C) STRANDEDNESS: single
     294
                    (D) TOPOLOGY: linear
W--> 296
             (ii) MOLECULE TYPE: DNA
     298
            (iii) HYPOTHETICAL: NO
```

DATE: 09/15/2003

```
PATENT APPLICATION: US/08/887,505A
                                                              TIME: 10:39:53
                     Input Set : A:\PTO.AMC.txt
                     Output Set: N:\CRF4\09152003\H887505A.raw
     300
             (iv) ANTI-SENSE: YES
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
     302
                                                                                   20
     304 GTTGGTGTTA CGTTTGGTTT
     306 (2) INFORMATION FOR SEQ ID NO: 15:
              (i) SEQUENCE CHARACTERISTICS:
     309
                   (A) LENGTH: 20 base pairs
     310
                   (B) TYPE: nucleic acid
                   (C) STRANDEDNESS: single
     311
     312
                   (D) TOPOLOGY: linear
W--> 314
             (ii) MOLECULE TYPE: DNA
     316
            (iii) HYPOTHETICAL: NO
     318
             (iv) ANTI-SENSE: YES
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
     320
                                                                                   20
     322 GCACGACACT CATACTAACG
     324 (2) INFORMATION FOR SEQ ID NO: 16:
     326
              (i) SEQUENCE CHARACTERISTICS:
     327
                   (A) LENGTH: 20 base pairs
     328
                   (B) TYPE: nucleic acid
     329
                   (C) STRANDEDNESS: single
     330
                   (D) TOPOLOGY: linear
W--> 332
             (ii) MOLECULE TYPE: DNA
            (iii) HYPOTHETICAL: NO
     334
     336
             (iv) ANTI-SENSE: YES
     338
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
                                                                                   20
     340 GGCTGCACGA CACTCATACT
     342 (2) INFORMATION FOR SEQ ID NO: 17:
              (i) SEQUENCE CHARACTERISTICS:
     345
                   (A) LENGTH: 20 base pairs
     346
                   (B) TYPE: nucleic acid
     347
                   (C) STRANDEDNESS: single
     348
                   (D) TOPOLOGY: linear
W--> 350
             (ii) MOLECULE TYPE: DNA
     352
            (iii) HYPOTHETICAL: NO
             (iv) ANTI-SENSE: YES
     354
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
                                                                                   20
     358 TGGAGGCTGC ACGACACTCA
     360 (2) INFORMATION FOR SEQ ID NO: 18:
              (i) SEQUENCE CHARACTERISTICS:
     362
                   (A) LENGTH: 20 base pairs
     363
     364
                   (B) TYPE: nucleic acid
    · 365
                   (C) STRANDEDNESS: single
     366
                   (D) TOPOLOGY: linear
W--> 368
             (ii) MOLECULE TYPE: DNA
     370
            (iii) HYPOTHETICAL: NO
             (iv) ANTI-SENSE: YES
     372
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
     376 GTCCTGGAGG CTGCACGACA
                                                                                  20
     378 (2) INFORMATION FOR SEQ ID NO: 19:
              (i) SEQUENCE CHARACTERISTICS:
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RAW SEQUENCE LISTING

VERIFICATION SUMMARYDATE: 09/15/2003PATENT APPLICATION: US/08/887,505ATIME: 10:39:54

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09152003\H887505A.raw

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L:35 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:36 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:62 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:80 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2
L:98 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3
L:117 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4
L:134 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:152 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6
L:170 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:188 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
L:206 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
L:224 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=10
L:242 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
L:260 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12
L:278 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13
L:296 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14
L:314 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15
L:332 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16
L:350 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=17
L:368 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=18
L:386 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=19
L:404 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=20
L:422 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=21
L:440 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=22
L:458 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23
L:476 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=24
L:494 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25
L:512 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=26
L:530 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=27
L:548 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=28
L:566 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29
L:584 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30
L:602 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31
L:620 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32
L:638 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=33
L:656 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=34
L:674 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35
L:692 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=36
L:710 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=37
L:728 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=38
L:746 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=39
L:764 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=40
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L:800 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=42
L:818 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=43
L:836 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=44
L:854 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=45
L:872 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=46
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VERIFICATION SUMMARY

DATE: 09/15/2003

PATENT APPLICATION: US/08/887,505A TIME: 10:39:54

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09152003\H887505A.raw

L:890	M:246	W:	Invalid	value	of	Alpha	Sequence	Header	Field,	[MOLECULE	TYPE:],	SeqNo=47
L:908	M:246	W:	Invalid	value	of	Alpha	Sequence	Header	Field,	[MOLECULE	TYPE:],	SeqNo=48
L:926	M:246	W:	Invalid	value	of	Alpha	Sequence	Header	Field,	[MOLECULE	TYPE:],	SeqNo=49
T. • Q A A	M · 246	W٠	Invalid	value	οf	Alpha	Sequence	Header	Field,	[MOLECULE	TYPE: 1.	SegNo=50